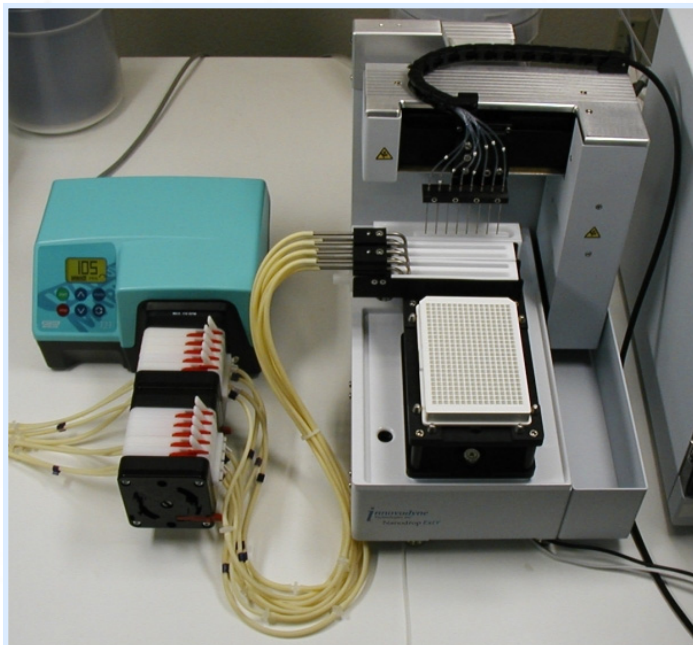


Reagent Refill System



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leading the way in high-precision dispensing



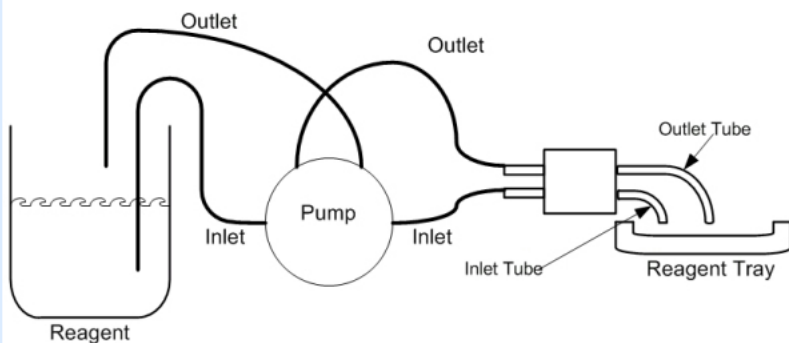
ExtY Stage with Reagent Refill System

Innovadyne Technologies offers the **Recirculating Reagent Refill System** for HTS and other applications that require dispensing up to four reagents to multiple plates. The reagent refill system refills the reagent reservoir automatically from separate reagent sources, maintaining a constant liquid level in each. This eliminates time-consuming manual pipetting and reagent level monitoring, and enables integrated automation and temperature control. The system includes an RS232 port that allows users to fill the reservoirs in a "just in time" fashion.

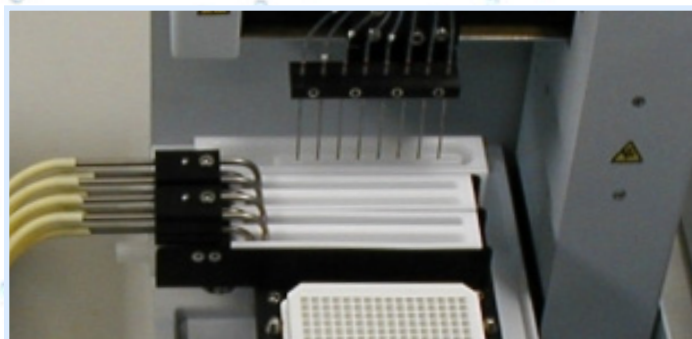
Each reservoir is supplied with fresh reagent via an inlet tube, and drained of excess via an outlet tube, both connected to channels on the pump. The excess can either be deposited into the same reagent receptacle from which it was aspirated (see diagram), or discarded as waste. Reagent heating, chilling or mixing is easily achieved using off-the-shelf peripherals such as hot plates, stir bars, and chillers to control the conditions of the reagent source.

Features

- Liquid maintained at a constant level in up to four reagent reservoirs
- Optional high-end peristaltic pump
- Reagent reservoirs fit all Nanodrop stages -- Nanodrop I, II or ExtY.
- Four reagents in, four reagents out
- Reagent bottles can be chilled, heated and/or stirred (using optional accessories)
- Stainless steel inlet and outlet tubes
- Low dead-volume Teflon reservoirs, removable for cleaning and autoclaving
- Replaceable tubing assemblies
- Adjustable flow control on pump -- display and keypad for manual control
- RS232 interface available for integrated automation



Reagent Refill Flow Diagram



Ph: 707-547-2500 Fax: 707-547-2501 Web: www.innovadyne.com Email: info@innovadyne.com
Innovadyne Technologies, Inc., 2835 Duke Court, PO Box 7329, Santa Rosa, CA 95407-7329

Specifications -- Tubing and Adapter Kit

Supported platforms	Nanodrop I, Nanodrop ExtY, Nanodrop II
Stationary tubing	Stainless steel, mounted to reservoir holder
Mounting	Snap-in tube/reservoir holder, with four retention screws
Troughs	Low-dead volume removable Teflon reservoirs
Flexible tubing	Polyethylene tubing with barbed fittings

Specifications -- Pump

Weight	5.0 kg / 11 lb
Dimensions	354 mm deep x 220 wide x 125 high (13.9" x 8.6" x 4.9")
Operational temperature range	5-40 degrees C (41-104 degrees F)
Flow rates	From 2µl/min to 53ml/min per channel
Speed control	Digital speed control in 1 rpm steps from 3 to 110rpm
Auto control signal input	Rear panel 25D socket accepts analog auto-control signal input for speed control 4-20mA, 0-10V
Design	Compact design, chemical resistant case
Remote inputs	Digital TTL or remote switch inputs for run/stop and direction
Motor	Maintenance free, quiet brushless DC motor -- <70 DBA @ 1 m
Auto-restart	Auto-restart for power failure recovery and timer control